

19981228.ba v02\_n353.bam.981228

>From ???@??? Mon Dec 28 20:15:07 1998  
Message-Id: <199812281512.JAA24307@sco.theporch.com>  
Date: Mon, 28 Dec 1998 09:10:53 CST  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 2353

BOATANCHORS Digest 2353

Topics covered in this issue include:

- 1) Info needed  
by gpewitt@execpc.com
- 2) TBX-2 stuff needed for restoration  
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
- 3) FS: Literature  
by Bill Robbins <billrobb@net-link.net>
- 4) Re: HAMMARING ON HAMMARLUND  
by Jack Harper <jharper@bsi2000.com>
- 5) RDP  
by Brian Bjerkelund <brianbj@compuserve.com>
- 6) FS: Drake TR-7 AM Filter  
by Bob <rsrolfne@atnet.net>
- 7) FS: Heathkit HW-101  
by Bill Robbins <billrobb@net-link.net>
- 8) MORE ON HAMMARLUND  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 9) Re; Computer Query  
by Jderm740@aol.com
- 10) FS: E.F. JOHNSON-STYLE DOUBLE-FUSED A.C. PLUGS  
by "Mike Warren" <w5maz@earthlink.net>
- 11) sand state fell short!  
by "Paul Bernhard Sr." <w2tu@email.msn.com>
- 12) Fair Radio Web Site  
by "Rudolf H. Salomon" <rhs@pacbell.net>
- 13) Manuals & BAs for Sale and Trade  
by K8MF0@aol.com
- 14) REliant equipment  
by Roy Nollkamper <royn@glacierelectric.com>
- 15) LF/VLF ARC-5 receiver  
by CARRJJ@aol.com
- 16) Johnson Thunderbolt Parts Needed  
by "ROBERT F. KEMP" <rkemp@mr.net>
- 17) Re: LF/VLF ARC-5 receiver  
by dma@islandnet.com
- 18) Help 75A-4 PT0.please

by Leslie Zwiebel <wb6orz@pacbell.net>  
19) FS: Tektronix 581A  
by "Richard Solomon" <w1kszt@tiac.net>  
20) The color-burst gathering  
by "Roberta J. Barmore" <rbarmore@indy.net>  
21) Re: NEUTRALS  
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>

---

From: gpewitt@execpc.com  
Date: Sat, 26 Dec 98 10:08:04 PST  
Subject: Info needed  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-ID: <Chameleon.981226101136.gpewitt@execpc.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am trying to fix a couple of old radios for  
a friend and need the Ryders or Sams numbers for  
a Philco 40-180 and an Atwater Kent 55C.  
Or better yet if anyone has them or copies I'd  
be happy to purchase. Thanks and Happy Holidays  
73 Gary

---

Name: Gary Pewitt N9ZSV/KT  
6120 W. Calumet Rd. Apt 204  
Milwaukee, WI 53223  
414 355 8147 Home 414 297 4307 Work  
E-mail: gpewitt@execpc.com  
Date: 12/26/98  
Time: 10:08:04

---

Message-Id: <199812261622.IAA02543@crow.prod.itd.earthlink.net>  
Subject: TBX-2 stuff needed for restoration  
Date: Sat, 26 Dec 1998 10:24:12 -0600  
From: "Joseph W. Pinner" <kc5ijds@sprintmail.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

I need the following to help complete my restoration of a TBX-2. If you  
can help me, surely would appreciate it:

Canvas Case    CSK-10027A            For TBX or Accessory Box  
Canvas Case    CSK-10029A            For antenna sections  
Antenna Reel   CG-71007            Contains wire antenna  
Generator Cable   CG-49044A

Would also like to have an original manual

Thanks!

73

Joseph W Pinner  
Lafayette, LA  
KC5IJD  
EMail: kc5ijd@sprintmail.com

-----  
Message-Id: <3.0.6.32.19981222171744.007a8280@serv01.net-link.net>  
Date: Tue, 22 Dec 1998 17:17:44 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Bill Robbins <billrobb@net-link.net>  
Subject: FS: Literature  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hammarlund Communications Equipment Catalog-About 20 pages featuring rigs  
from the SP-600 to the HQ-100.    \$15 shipped.

Surplus Radio Conversion Manual-Vol.1, 2nd ed., Evenson/Beach.    No cover.  
\$12, shipped.

Surplus Radio Conversion Manual-Vol.1, 3rd ed., Evenson/Beach.    \$17, shipped.

2 Hammarlund Spec Sheets.    HQ-110 and HQ-170A.    \$12 shipped.

Happy holidays de Bill

Heathkit Collector  
WA8CDU Formally WN8CDU

-----  
Message-Id: <4.1.19981226105049.00ad1270@mail.bsi2000.com>  
Date: Sat, 26 Dec 1998 10:57:03 -0700

To: Old Tube Radios <boatanchors@theporch.com>  
From: Jack Harper <jharper@bsi2000.com>  
Subject: Re: HAMMARING ON HAMMARLUND  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 12:28 PM 12/24/98 -0500, Bobbi Barmore KB9GKX wrote to me via private e-mail:

(I -- Jack, W0YJ (Friend to all things Hammarlund) -- am posting Bobbi's e-mail regarding the Hammarlund HX-50 transmitter to me to the BA List with her permission -- I think it might be of interest to the HX-50 fans out there):

>  
>Hi, Jack!  
>  
> Best wishes of the season to you, too!  
>  
> You can repost my nattering to the list if you'd like, though there's  
>an important caveat: I do not own nor have I ever restored an HX-50! I'm  
>just working from general principles, based on my own understanding of how  
>parts act and the (wonderful!) postings Hank van Cleef has made in the  
>past about his restoration efforts & the philosophy behind them. Hank is  
>entirely unafraid to rethink a design from scratch--but he \*never\*  
>assumes the original designers were clueless. To me, this is a good and  
>useful way to approach things.  
>  
> 73,  
> --Bobbi

<snip>

<Start of First e-mail>

Hi, Jack!

The HX-50 was Hammarlund's first VFO-controlled SSB transmitter; they'd produced the ED-4 (6L6s driving an RK-47 or 814) in 1939, along with a matching 500W amp that was a nice example of prewar commercial transmitting gear, and then the Four-20 in '47-48, a 20W CW job (AM with a matching modulator). Both of these products were pretty simple, and both used crystal control.

It is probable that what tripped 'em up on the HX-50 was the need to get usable power from the VFO--which is never an aid to stability!--and the far-out high-tech SSB modulator; having to put it all in one box along with the power supply & RF PA was not much help, either. A 100W transmitter is going to create more heat than a receiver!

If LO stability is a problem in your rig (get it going by the book and as-sold first!), it can probably be cured--replacing the fixed condensers with NP0 types and using an air-core inductor (if possible) instead of a ferrite core one would probably be a good start.

The varactor diode(s) John says they used for LSB/USB offset, you might be able to replace with diode-switched air trimmers.

And it may be possible to diplex out the 6mc/s LO feedthrough when operating on 40m; the usual problem with filters is, they don't give the rejected energy anywhere to go! Feeding the post mixer signal into two passband filters (inputs paralleled), one for 7mc/s that passes RF along to the rest of the rig and another for 6 mc/s that feeds into a resistive termination, ought to help a lot. (Filter design was a tricky, expensive art in 1961 and tricks like diplexing were not used much at HF). ...Might be easier to use lowpass/highpass filters, with knees at, oh, 6.2 (LP) and 6.8 (HP) mc/s, varying if needed to clear the upper end of the LO range.

The problems that have been mentioned smack of improper fundamental design choices, rather than sloppy compensation or fussy adjustment parameters, and given that they had good talent available, the main things to watch out for are the non-ideal characteristics of components, the ways in which they do not act in the same fashion as their "perfect" theoretical models; that is what has me wondering about fixed condensers & core material in the LO/VFO, both well-known areas of real-world departure from on-paper behavior. LO feedthrough, well, sounds like somebody got optimistic about that, and the fix wasn't cost-effective for mass-production. You fix ths kind of thing by minor redesign and using better parts in place of the originals, not by slapping even more parts in on top of what's there. That'll result in lower drift, and then you can look at temperature compensation.

Anyway, the problems are likely fixable, and fixable within the bounds of 1960s technology; Hammarlund's engineers weren't idiots, they were just not transmitter people and they had to build the thing for a price at which it would sell.

73,  
--Bobbi

-----  
<end of Bobbi's e-mail>

Best Regards to All and Merry Christmas

Jack, W0YJ (Friend to all things Hammarlund)

-----  
Jack Harper  
303-231-9095

BSI2000, Inc.  
Lakewood, Colorado USA

"Optical Cards... A Spectrum of Solutions"  
Optical Cards for Bank, EBT, and Medical Applications  
Visit our Web Page: <http://www.bsi2000.com> (Last Update: 980421)  
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-----  
Date: Sat, 26 Dec 1998 15:02:03 -0500  
From: Brian Bjerkelund <brianbj@compuserve.com>  
Subject: RDP  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-ID: <199812261502\_MC2-64CE-2561@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline

Howdy Gang:

To combat the post-Christmas blues, I brought home an RDP panadapter today.

Now that I have this thing, what did it go with? Seems to be contemporary to my RBC.....could I be that fortunate?

Come on guys, help me with my education!

Thanks and best 73,

Brian, K7AIS

-----  
Message-ID: <36856559.BEEA6EF2@atnet.net>  
Date: Sat, 26 Dec 1998 14:38:18 -0800  
From: Bob <rsrolfne@atnet.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Ham List <ham@honk.org>, Ham Books List <ham-books@qth.net>, For Sale - Swap List <forsale-swap@qth.net>, Boatanchors List <boatanchors@listserv.tempe.gov>,

Boatanchors List <boatanchors@qth.net>,  
BA Swap List <baswaplist@foothill.net>  
Subject: FS: Drake TR-7 AM Filter  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greetings - Looking into a box of goodies that came with a "new" Drake TR-7 transceiver system from an estate is a new never been installed 8 KHz AM filter. It has a date code of Feb. 1980, was made by Network Sciences Inc., and a model number of SL-8000.

Asking \$60, which includes postage inside the USA.

73's Bob W7AVK

-----  
Message-Id: <3.0.6.32.19981222215518.008f9210@serv01.net-link.net>  
Date: Tue, 22 Dec 1998 21:55:18 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Bill Robbins <billrobb@net-link.net>  
Subject: FS: Heathkit HW-101  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I have started to clean house. I am selling an HW-101 with cw filter and HP-23B power supply.

I would give it about a 7.5

I have made several QSO's on 10,15 and 20 meters today to be sure it works.

\$175 plus shipping. Remember, CW Filter.

Heathkit Collector  
WA8CDU Formally WN8CDU

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MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit  
Date: Sat, 26 Dec 1998 20:19:58 -0500 (EST)  
Subject: MORE ON HAMMARLUND  
To: Old Tube Radios <boatanchors@theporch.com>

From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
Message-ID: <9812262019.aa25281@pcusa01.ecunet.org>

To: boatanchors@theporch.com

> It looks to me as if the failings of the HX-50 are probably driven by  
> some poor choices in the VFO (and probably the need for more power from  
> it than is typical of receiver applications), and the far-out, high-tech  
> world of early '60s SSB; probably the additional heat found inside a  
> transmitter in the about 100 W class (compared to heat typical of a  
> receiver) doesn't help any.

It's true, this xmtr runs very hot in its cabinet.

I ran it out of its cabinet as it needed adjustment & troubleshooting so often! This cooled it down a lot too. I also drilled a series of about 1/4" holes in the chassis around the power xfmr.

> I suspect redoing the VFO with components that are more stable, and a  
> \*serious\* look at the feedthrough problem on 40 (I'm thinkin' diplexing,  
> which gives the rejected energy someplace to go) would help a lot.

They used \*two\* different traps to keep 6 MHz VFO energy out of 40 m ops, but wasn't enuf. I think VFO energy was sneaking thru in other ways, stray coupling, etc. The chassis had about 3-4 extra holes in the trap area for more traps but Hammar didn't get around to putting in more traps.

> I'd be more tempted to get one going as-built, then rip all of the  
> passives (including the inductor, but keeping the variable condenser--it  
> \*is\* condenser-tuned, right?) out of the VFO and start over. Gross  
> shifts and jumps usually mean some bad parts choices in the  
> frequency-determining components, which fiddling the temperature  
> compensation will not fix. I 'spect John's suspicions of the varactor  
> diodes might hold some water, too.

I strongly think it was the VFO tank coil ferrite core material's temperature coefficient. I got this idea from Doug DeMaw. But varactor is good possibility too, I never tried temporarily disconnecting it. The VFO just never settled down. I don't recall (it's been too many years now) if the delta freq was always in one direction or not.

> (Another area worth pondering is heat--nearby sources, changes between  
> standby and transmit, etc. But receiver types shoulda been hip to heat,  
> I wouldn't wager much on the main problem being there).

An always on VFO area heater (also tried heater on \*only\* when rig off) & always on VFO osc tube filament didn't help! And running it out of the cabinet, even ran it often with chassis on its side, didn't help.



> Feedthrough is a more serious issue and not to be solved in a day.  
> However, this general issue is one that did not vanish when solid-state  
> came in, and approaches have become more sophisticated over the years.  
> Wes Heyward has written some good stuff about mixer termination which  
> should be applicable here.

If that was in fact the problem, i.e. mixer feed thru, rather another mode of feedthru.

> Sheesh, it's a meg away from the desired output, it might as well be in  
> the next state--it \*can\* be got rid of, though not by mere band-aids.

Yeah, that's what I think too.

> Just some thoughts--I've seen the pix, this is too pretty a rig to  
> discard as an unfixable dog. On the other hand, if Hammarlund was after  
> building an "appliance," they should've maybe tried making a blender....

Yes, it is attractive but only on front. Just another pretty face I'm afraid.

-John Sehring ( 1:52 pm Sat, Dec 26, 1998 at Custer, SD USA) ucc wb2eqg

-----  
From: Jderm740@aol.com  
Message-ID: <2b3a7d54.36859199@aol.com>  
Date: Sat, 26 Dec 1998 20:47:05 EST  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Subject: Re; Computer Query  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Thank you one and all.

Some twenty members answered my query, off line, and I thank you one and all.

Some were in a similar situation and couldn't do much but offer sympathy.

Thanks any way.

Some members suggested systems that would require me to go through a whole new learning procedure. At my age, 69+, I not to good at lernin. But thanks.

Some suggested systems outside my budget and I wish I could do what you suggest, but being retired and on a fixed income (now don't fret. No one has to hold a benefit for me) I have to wait for the first of every month to have the well recharged. And, with Christmas, the bucket was makeing clamking noises every time I sent it down for another dip.

But two gentlemen brought to me great expertise. One of them has twenty-five years in the buisness of keeping other people's systems perking. An exchange of ideas has lead me to believe that this Spring I can solve my problem within my resourses.

To him I say a hearty thanks.

And to others that found my request objectionable, I'm sorry you felt that way but I am not contrite. This forum, I thought, was about exchanging ideas and knowledge.

And as thhat would be impossible without these devices I am perplexed by the reaction. Maybe now that the stress of the season is subsiding a little more relaxed attitude will prevail.

Thanks again to one and all and the jolly old fella said "Merry Christmas to all and to all a good night".

-----  
Message-ID: <001101be318b\$454ad5a0\$99c61b26@mikewarr>  
From: "Mike Warren" <w5maz@earthlink.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: E.F. JOHNSON-STYLE DOUBLE-FUSED A.C. PLUGS  
Date: Sun, 27 Dec 1998 05:23:02 -0600  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,

Thanks to John Sehring who uncovered them and sold them to me, I have available 15 NOS original ELMENCO black plastic fused AC line cord plugs as used by E.F. Johnson on the Ranger, Valiant, etc. They are in like-new condition and come with two 10 amp cartridge fuses installed.

I have purchased padded shipping bags and for a \$5 bill, I will send you a plug via first class mail (Canada included). First come, first serve, one to a customer unless I get less than 15 requests.

Happy Holidays to ALL!

73,  
Mike Warren W5MAZ  
15533 Sandhill Circle  
Eden Prairie, MN 55347

-----  
Message-ID: <000101be31b1\$556f9120\$06582299@default>  
From: "Paul Bernhard Sr." <w2tu@email.msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: sand state fell short!  
Date: Sun, 27 Dec 1998 10:55:29 -0500

Hi all;

An interesting article in today's (Sun) paper about a german couple who, following their onboard GPS drove their car into the water. The computer didn't tell them instead of a bridge they needed a ferry-boat!

Sand state isn't the answer to no common sense! hi.  
If it was fire bottle technology we would have allowed for bad caps, drifting oscilators, etc. and kept looking out the windshield.  
Merry Christmas and a Happy New Year to all.

Paul B. W2TU

w2tu@email.msn.com

-----  
Message-ID: <36866439.643@pacbell.net>  
Date: Sun, 27 Dec 1998 08:45:46 -0800  
From: "Rudolf H. Salomon" <rhs@pacbell.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Fair Radio Web Site  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Check out the Fair Radio web site. Total make-over.  
Looks like the entire contents of their catalogs is there, in text, without the graphics.

<http://www2.wcoil.com/~fairradio/>

Rudy Salomon

-----  
From: K8MF0@aol.com  
Message-ID: <5f1e9dc9.36866b1c@aol.com>  
Date: Sun, 27 Dec 1998 12:15:08 EST  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: baswaplist@foothill.net  
Mime-Version: 1.0  
Subject: Manuals & BAs for Sale and Trade  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I have a number of original manuals for sale. All are complete, except as noted.

For Sale Items - Manuals

Collins 75S-3, 75S-3A - \$18

Collins 32V-3 - \$20

National NC-46 (missing back cover). Also has a Photofact Insert for the NC-46, and a data sheet for the NC-240-D thrown in -\$18

Hallicrafters HT-40K Mark I. Assembly instructions - \$18

Drake R4-C -\$18

Dentron MLA-2500 -\$18

Yaesu FT-101E/101-EE/101EX -\$18

Manual prices include Postal Priority shipping in CONUS

-----  
-----  
The following are "trade items". I am basically interested in semi-automatic telegraph keys (bugs) or perhaps nice McElroy straight keys.

1. CONAR Model 400 Transmitter. From the National Radio Institute. This is in nice condition, with a manual copy. Front panel really nice .. has a couple of dents on sides of cabinet, really clean inside.

2. UNBUILT HEATHKIT Antenna Noise Bridge HD-1422-A

3. COLLINS 270G-1 speaker. Match for 75A-4. The fabric grill is not original, nor are the horizontal trim pieces. Easily restorable.

Again, the CONAR, HEATHKIT, and COLLINS are "trade items".

If you have any questions about any of the above items, please ask. I can even provide you with digital images, sent directly to your e mail address.

Thanks for reading.

Hope you are all having a Happy Holiday Season

73

Don K8MFO

-----  
Date: Sun, 27 Dec 1998 12:51:12 -0700

Message-Id: <199812271951.MAA31582@noodle.hi-line.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Roy Nollkamper <royn@glacierelectric.com>  
Subject: REliant equipment

Happy New Year to all...

Recently acquired what I suspect is some REliant gear, judging from recent BA discussion. The linear uses a pair of 813's running grounded grid and is built from mostly BC 610 pieces. Literally built like a tank. The faceplate is all brushed aluminum, unfinished. It has a built-in RFO circuit/meter and three other meters, all obviously surplus...it looks great!

I also have the control unit with the built-in 'scope monitor, SWR bridge/wattmeter and patching board for different transmitters and antenna outputs. Finish on this is the same with stamped function information.

While most of this is fairly straight forward I'm not certain how the patching setup was intended to work. It doesn't seem to make any difference where the patch cords are located, or if they are even inserted. Any ideas on this and does anyone have some "official" schematics for these two units.

I am toying with the idea of converting the linear for 160 meter use without any visual "damage" to the unit. It apparently is designed for 40 meters and up as it has difficulty tuning on 80, and 160 is out of the question.

I have a line on the remainder of the station, but don't have the equipment wanted for trade (hi Kevin). I would be interested on more of the history of the REliant gear and some printed information. I think a complete rack-mounted station would be a great addition to my high-tonnage basement as long as I can haul it downstairs in small pieces...The linear is definately not a small package!

The start of a thread?? or e-mail me direct.

(Sorry, these weren't procured by the Germans via neutral countries!)

Thanks, Roy, K7JAQ, Cut Bank, MT, where the wind always blows the signals better and faster.

-----  
From: CARRJJ@aol.com  
Message-ID: <d0bcc1e7.3686a7a4@aol.com>  
Date: Sun, 27 Dec 1998 16:33:24 EST  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0

Subject: LF/VLF ARC-5 receiver  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Looking for a 0.19-0.55 MHz VLF ARC-5 receiver. I believe the Navy and possibly Army used them.

Joe Carr  
K4IPV

-----  
Message-ID: <3686E13E.50F4@mr.net>  
Date: Sun, 27 Dec 1998 17:39:10 -0800  
From: "ROBERT F. KEMP" <rkemp@mr.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Johnson Thunderbolt Parts Needed  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anyone have some Johnson Thunderbolt parts:  
Am in need of the tank circuit, front panel parts and misc. stuff....  
Have the Main Chasis, transformers etc.

Could also use a copy of the manual. Thanks.  
Bob.

-----  
From: dma@islandnet.com  
Message-Id: <m0zuQR6-000KtvC@mail.islandnet.com>  
Date: Sun, 27 Dec 1998 16:11:03 -0800  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: LF/VLF ARC-5 receiver  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 04:33 PM 12/27/98 -0500, you wrote:  
>Looking for a 0.19-0.55 MHz VLF ARC-5 receiver. I believe the Navy and  
>possibly Army used them.  
>  
>Joe Carr  
>K4IPV

Hi Joe ...

I assume you mean the BC-453. But there is also the R-511 which is very similar, updated later production but has no local frequency dial, although

it can be tuned locally. There's a pix of both on my website in the 'Military Gallery'.

If you need the unit as a fixed 455kHz IF strip then the R-511 would work well. If you want it as a tunable VLF receiver, you'd need a remote head (which has a dial much like the BC-453's) and cable - very difficult to find.

I could be persuaded to part with the R-511 - which is almost certainly not what you want! It is unmodified and in good electrical condition. I operate it with the dynamotor shown in the pix. The tuning knob isn't included. They are also hard to find. However, you shouldn't have too much trouble finding a BC-453, although it's increasingly hard to find one that isn't modified or badly hacked up.

There is also the BC-1206 (also on my website) which is a tunable aircraft beacon receiver that covers from 200 - 400 kHz. It is interesting because it operates directly from low voltage DC. The one I have is unused, but these are not hard to find either. I've never mentioned sensitivity on any of these, but would expect the 453/511 to be better than the 1206 - which is a very simple rcvr.

Jan Skirrow, VE7DJX

Duncan, BC, Canada

\*\*\*\*\*

<http://www.islandnet.com/~dma/Boatanchors/>

Information, Parts, Pictures, Articles: The R-390A and other classic gear.

\*\*\*\*\*

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Message-ID: <36870F44.48828202@pacbell.net>  
Date: Sun, 27 Dec 1998 20:55:32 -0800  
From: Leslie Zwiebel <wb6orz@pacbell.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Help 75A-4 PTO.please  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Happy Holidays to the list. I'd appreciate any hints, kinks, leads, printed material, etc. re the PTO overhaul, lubing, adjustments, etc. to bring a dead one back to life. I have the ER Compendium (great), but the

12/74 Ham Radio re-print I have has poor resolution, can't see the parts too well. I have the Chuck Rippel video, and Howard Mills has been mentioned as a resource expert too.

Knew it was a matter of time before PTO died, it had been creaking. (Guess it's like people, hi). Everything else in the radio is updated and had been working fine.

73, Les

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Message-Id: <199812281320.IAA01486@mail-out-3.tiac.net>  
From: "Richard Solomon" <w1ksz@tiac.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: Tektronix 581A  
Date: Mon, 28 Dec 1998 08:16:21 -0500  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Need the room, so reduced the price  
Tektronix 581A with two type 86 and one  
type 82 (dual-trace plugin). Price reduced  
to \$75, pickup only in Lexington, MA (too  
big for me to pack !!).  
73, Dick, W1KSZ

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Date: Mon, 28 Dec 1998 09:02:40 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: The color-burst gathering  
Message-ID: <Pine.SUN.3.96.981228083841.13927A-1000000@indy2>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

If anyone's wondering, the color-burst freq is still hoppin! Went down to the basement last night to do some laundry, flipped on one of the sets left on 3579 kc/s from a QSO earlier, and Sandy (W5TVW) fair \*leapt\* outta the ether (like he'd been holding a lit match in it!). He was holding court in a roundtable with Bob (AC5AM\*), Jack (W7QQQ) and John (W7ZFB, I think--the log's downstairs). So I fired up the most powerful rig here (50W and let's \*not\* discuss the active devices) and joined in--catching the rythm of a CW roundtable is a bit of an art but the gang is plenty helpful. (Have to admit, just about wore out my ears trying to listen fast enough...however, it's good exercise for the grey matter and the only way to get any speed is to work at it!)



50W launched from my chancy G5RV double Zepp zigzagged up from grabbing distance at the garage to the chimney of our two-story house was pretty well buried in the mud up in 7-land, but wandered down the White River to the Ohio and took the Big Muddy to hit Kingfish territory okay--first time I've been able to get a signal through to Sandy on 80. (It's gotta be them rivers, the skywire here is lower than the power grid!)

It's loads of fun--where else will you hear a left-handed bug mentioned as casually as the weather? I'll be back, and sure hope to hear more of the gang next time!

73,  
--Bobbi

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\* AC \*5\*, wouldn't you just know it--had half a hope it'd be one of those Tibetan AC4s; but shucks, if AC4's Tibet, AC5 must be Inner Mongolia, right? I'm gonna count it that way; certainly the name of his QTH (I can spell it but wouldn't try to pronounce it on a bet) coulda' been Mongolian! ;)

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore  
FISTS #3388 \* G-QRP #10001 \* ARRL \* RSGB \* WIA  
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

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Message-ID: <05a101be3274\$712b2280\$0300a8c0@cyber>  
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: NEUTRALS  
Date: Mon, 28 Dec 1998 14:00:41 +0100  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

ITT was the biggest " sinner" af them all during WW2.

A major portion of the Wehrmacht field radios was made by their German subsidiary  
Lorenz .

73 rag oz8ro

>On a higher level of abstraction you are correct...how could they remain  
>neutral. But it's also true that the Swiss level of abstraction was  
modulated

>by the prospect having 20 Waffen-SS panzer divisions cross their border.  
>Besides, what is crystal clear to us, with the advantage of historical  
>hindsight, was not entirely clear to contemporaries.

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End of BOATANCHORS Digest 2353

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